Intel® NetStructure™ ZT 5524 High Performance Board Reference Design

Intel in Communications

Product Overview

Carrier-grade telecom applications desire the highest processing performance that can be fit into a blade single slot. The Intel® NetStructure™ ZT 5524 High Performance Board Reference Design is a platform that enables OEMs to reduce time-to-market and minimize development costs for high-performance communications blades. Dual Low Voltage Intel® Pentium® III processors with 512 K cache at 933 MHz provide the optimum combination of processing power and the thermal characteristics demanded by a 6U blade format.

Because telecom applications additionally require high availability, the dual-processor/ redundant-host processor board design is compliant with PICMG* 2.16 and offers configurable high availability, I/O expansion and 66 MHz CompactPCI* bridging capability. The design also includes flexible on-board embedded features and reliable, off-the-shelf Intel® Architecture designed to accelerate development; the design supports major operating systems, including real-time software.

Product Highlights

Computing core

- Single or dual Low Voltage Intel Pentium III processors at 933 MHz support in a single CompactPCI slot
- Integrated 512 KB L2 cache
- 33/66 MHz, 64-bit CompactPCI system bus interface

Peripherals and I/O

- 16 MB on-board Intel® Flash memory for field-upgradeable BIOS and storage for user programs
- Dual 10/100/1000 Ethernet interfaces
- Choice of 2.5" low-profile board-mounted EIDE hard drive or optional CompactFlash* Type II drive carrier
- Optional I/O mezzanine expansion card
- Baseboard Management Controller (BMC)

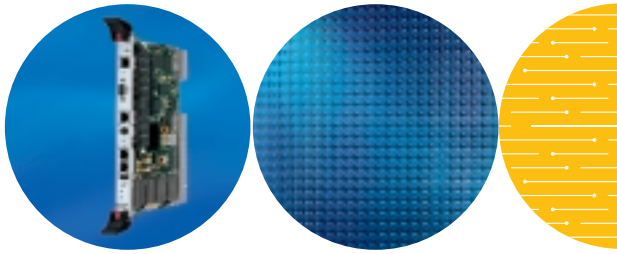
Benefits

- PICMG 2.16 compliance allows the user to interconnect other compliant boards in a single chassis to minimize compatibility issues.
- High availability is provided by Intel's RSS (Redundant System Slot) capability (available under license).
- The I/O Mezzanine Expansion Card provides an additional two PMC sites for the easy addition of I/O devices, in addition to providing dual Fibre Channel interfaces for high bandwidth connectivity.

Options for Developers

Developers can choose from three levels of information:

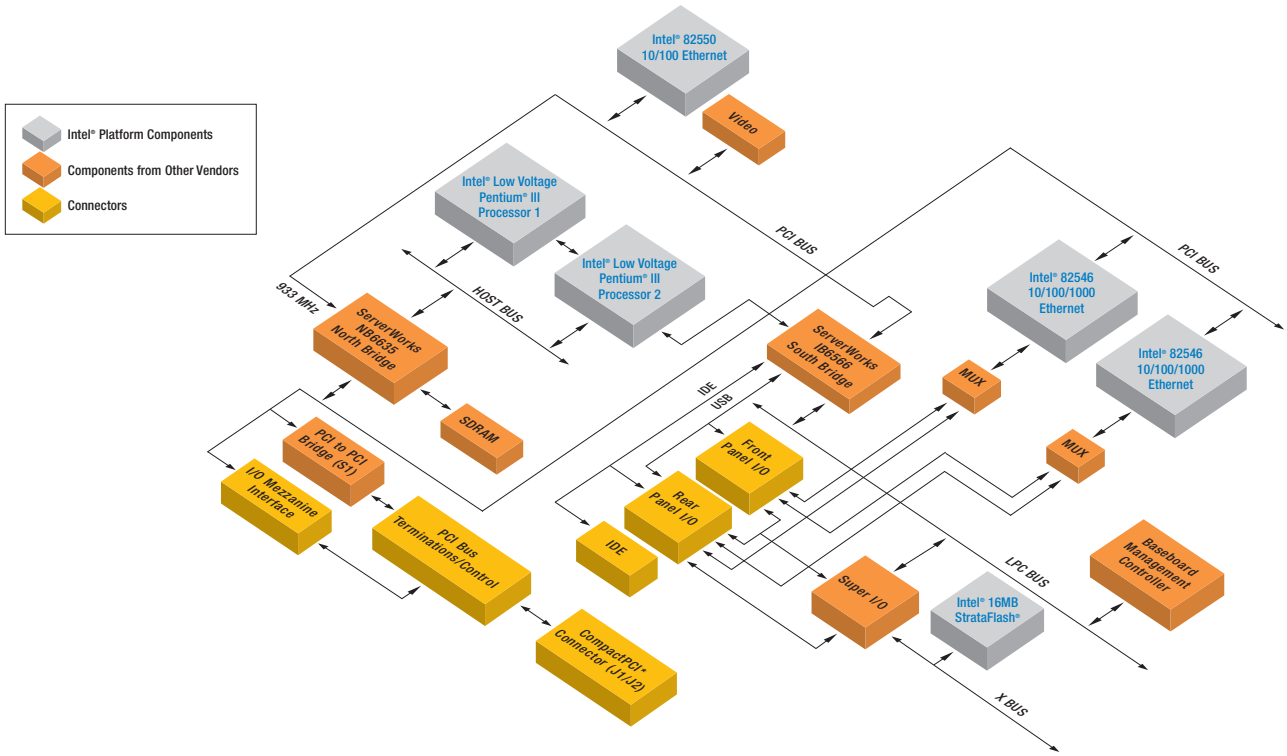
1. Schematics, technical product specifications and collateral are available for the Intel® NetStructure™ ZT 5524 High Performance Board Reference Design at no cost.



2. A board license provides most of the information required to modify and manufacture the processor board design. It includes schematics, gerbers, CAD files, BMC license, manufacturing tests, PLD programming and associated documentation. Contact your local sales representative for pricing details.

3. The Intel® NetStructure™ ZT 5524A-1A dual-processor board and ZT 5524A-1B single-processor board are available as standard products. More information on the Intel® NetStructure™ product line is available at developer.intel.com/design/network/products/cbp/linecard.htm.

Intel® NetStructure™ ZT 5524 High Performance Board Reference Design



Intel Access

Developer's Site:	developer.intel.com
Embedded Intel® Architecture Home Page:	developer.intel.com/design/intarch
Other Intel Support:	Intel Literature Center developer.intel.com/design/litcentr/ (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline:	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

For more information, visit the Intel Web site at: **developer.intel.com**

UNITED STATES AND CANADA
Intel Corporation
Robert Noyce Bldg.
2200 Mission College Blvd.
P.O. Box 58119
Santa Clara, CA 95052-8119
USA

EUROPE
Intel Corporation (UK) Ltd.
Pipers Way
Swindon
Wiltshire SN3 1RJ
UK

ASIA-PACIFIC
Intel Semiconductor Ltd.
32/F Two Pacific Place
88 Queensway, Central
Hong Kong, SAR

JAPAN
Intel Kabushiki Kaisha
P.O. Box 115 Tsukuba-gakuen
5-6 Tokodai, Tsukuba-shi
Ibaraki-ken 305
Japan

SOUTH AMERICA
Intel Semicondutores do Brazil
Rue Florida, 1703-2 and CJ22
CEP 04565-001 Sao Paulo-SP
Brazil

Printed in USA. 0103/OC/EW/PP/2.5K Please Recycle 252163-001